

Math with a Blender - Using
Blended Learning Resources in Math

The Kahoot! logo, featuring the word "Kahoot!" in a white, playful, sans-serif font with a slight shadow, set against a bright blue square background.

KAHOOT

Kahoot – Icebreaker

How well do you know the 80's?



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- 11 years teaching in grades 3rd – 9th grade
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- B.S. & M.S. Elementary Education
- M.S. Instructional Technology & ED.S. Teacher Leadership



Blended Classrooms

Blended classrooms are those that use online content and tools as an integral part of instruction, go beyond using the latest gadget to get kids' attention. They apply technology to expand classroom learning into new realms, providing unique learning experiences that enhance, rather than replace, face-to-face interaction.

Source: ISTE



Blended Classrooms

A successful blended learning environment is one in which there is no clear distinction between what's happening online and what's happening during class time. It helps students connect not only with the teacher and the class content, but also with each other.



Source: ISTE

Blended Learning

SO, HOW DO WE MAKE THIS
INTERACTION HAPPEN?



Blended Learning Classroom

LMS

Learning Management Systems

Social Media

Social Media Tools

Games

Interactive Activities and Games

Videos

Lesson Videos

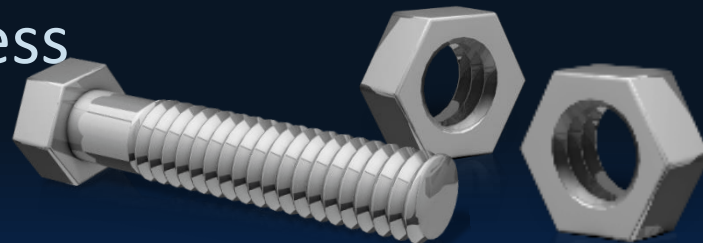
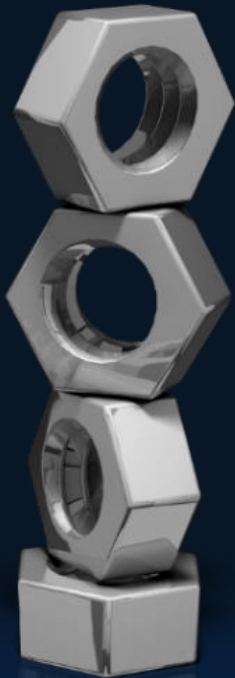
Tasks

Performance Tasks

Learning Management Systems

This is an online platform that teachers can use to interact with students beyond the classroom.

- Advantages
 - Learning beyond the classroom walls.
 - Additional resources for all students.
- Concerns
 - Privacy
 - Student access



Learning Management Systems

There are an abundance of free LMS platforms for use in the classroom.

1. [Google Sites](#)

- Free student accounts
- Massive amount of storage
- Easy to setup and use

2. [Google Classroom](#)

- Free with Google Apps for Education
- Easy to assign papers or projects
- Students can easily submit assignments to create less paper waste.

3. [Edmodo](#)

- Allows teacher to track student progress on standards.
- Mobile-device friendly

Learning Management Systems

There are an abundance of free LMS platforms for use in the classroom.

4. [Wikispaces](#)

- Easy way to share resources.
- Allows social newsfeed for discussions

5. [CourseSites by Blackboard](#)

- Create up to 5 courses for free
- Mobile-friendly
- Create assessments and grade tracking

Social Media Resources



The best way to connect with others about any topic using a hashtag.

One way to connect this to your classroom is create your own unique hashtag to use. Encourage students to tweet highlights or questions from class.



Students can chat with each other for free. They can share their desktop in addition to a picture with a webcam.

Teachers can also host live study sessions in a group room.



Facebook can be useful in polling and surveying a large audience.

Teachers can also create a teacher account to post projects and homework assignments for students.

Social Media Resources

Using social media with students can be scary.

It is important to remember :

1. Students must be taught parameters about acceptable use.
2. A teacher's online presence is always visible and judged.
3. To engage students, we must use tools that they are familiar with.

A great web resource for ideas with using social media in the classroom is the blog [**"100 Inspiring Ways to Use Social Media In the Classroom"**](#).

Online Games and Activities

- www.math-play.com
- www.mathplayground.com
- www.hoodamath.com
- www.khanacademy.org
- <http://illuminations.nctm.org/>
- <http://nlvm.usu.edu/en/nav/vlibrary.html>



Videos

Videos can be found for a wide variety of topics online. The important thing to keep in mind is that these videos need to be previewed to ensure that the content is at the appropriate level.

Major source of online videos:

www.khanacademy.org

Textbook companies

www.youtube.com



Video Resources

The best way to ensure that the content in the video matches the standard and rigor that you are aiming for is to make your own.

I know it seems a little intimidating, but there are several online tools to make this process less daunting.

To start creating your own videos, you will need a microphone, computerized lesson, and recording software.

Types of Microphones



The advantage to these earphones is the ability to hear yourself as feedback. It also makes the recording process more personal.



This microphone is easy to set up and record. Also, it can be used when moving around during the video.

Recording Software

There are many resources that can be used to create your video recordings. The two primary resources that I have used are ScreenCast O-Matic and Camtasia.

ScreenCast O-Matic – A web-based recording software.

- Teachers can create free recordings up to 5 minutes.
- Can purchase a pro account for \$15 per year.

Camtasia - Software that you must purchase. You will need to install it on the computer that you plan on using.

- Advanced editing capabilities.
- Many tricks and add-ons that can enhance your videos.

Steps to Making Your Own Video



1) Create your lesson

3) Upload your video



2) Record your lesson

4) Share the URL



Performance Tasks

HOW CAN WE USE THE POWER
OF THE INTERNET TO EXTEND
LEARNING?



Performance Tasks

We live in the golden age of information. Anything that you want to learn is at the touch of a finger.

How can we motivate students to want to learn more about math?

By making the math meaningful, relevant, and intriguing.

This is where performance tasks can come in!

Examples of Performance Tasks

- Have students create a menu where they must look up recipes and serving sizes to calculate cost.
- Use sale ads to have students calculate percentages.
- Calculating size of an area and calculating the cost of paint or carpet.
- Find the height of building using scale models.
- Creating a map of the U.S. drawn to scale according to electoral votes.

Whatever the activity, incorporate real-world application and provide the students reasons to learn the skill.



Questions?
More Information?

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